

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> Date Submitted: March 29, 2004 (use as many sheets as necessary)			<b>Complete if Known</b> Application Number: 10/688,276 Filing Date: 10/20/2003 First Named Inventor: Masaru KATO Group Art Unit: <del>4632</del> 1652 Examiner Name: Unassigned I. Chowdhury Attorney Docket Number: 049441-0133		
Sheet	1	of	2		

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
IC	A1	5,681,826		SHIBUYA et al.	10/1997	
IC	A2	5,455,168		MARUTA et al.	10/1995	

FOREIGN PATENT DOCUMENTS									
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>	
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)					
IC  ↓  V	A3	EP	0 671 470			09/1995			
	A4	EP	0 674 005			09/1995			
	A5	JP	63-129990			06/1988			
	A6	JP	63-500562			03/1988			
	A7	JP	6-62869			03/1994			
	A8	EP	0 691 344			01/1996			
	A9	EP	0 691 407			01/1996			
	A10	EP	0 697 461			02/1996			
	A11	EP	0 709 461			05/1996			
	A12	EP	0 686 866			12/1995			
	A13	EP	0 688 867			12/1995			
	A14	EP	0 690 130			01/1996			
	A15	EP	0 690 131			01/1996			
	A16	EP	0 606 753			12/1993			
	A17	EP	0 619 951			10/1994			
	A18	EP	0 628 630			12/1994			
	A19	EP	0 670 326			09/1995			
	A20	EP	0 670 327			09/1995			
	A21	EP	0 671 470			09/1995			
	A22	EP	0 727 485			08/1996			
	IC	A23	WO	95/34642			12/1995		

Examiner Signature	/Iqbal Chowdhury/ (06/08/2006)	Date Considered	
--------------------	--------------------------------	-----------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, PO Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, PO Box 1450, Alexandria, Virginia 22313-1450.

Substitute for form 1449B/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Date Submitted: March 29, 2004

*(use as many sheets as necessary)*

**Complete if Known**

<b>Application Number</b>	10/688,276
---------------------------	------------

<b>Filing Date</b>	10/20/2003
--------------------	------------

First Named Inventor	Masaru KATO
----------------------	-------------

Group Art Unit	<del>1032</del>	1652
----------------	-----------------	------

Examiner Name	Unassigned <i>I Choudhary</i>
---------------	-------------------------------

Attorney Docket Number	049441-0133
------------------------	-------------

Sheet

2

of

**2**

## NON PATENT LITERATURE DOCUMENTS

[illegible]

**Examiner  
Signature**

/Iqbal Chowdhury/ (06/08/2006)

Date Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

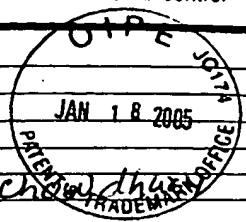
<sup>1</sup> Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

\*Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>a</sup>Applicant is to place a check mark here if English language Translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, PO Box 1450, Alexandria, Virginia 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, PO Box 1450, Alexandria, Virginia 22313-1450.**

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> Date Submitted: January 17, 2005 (use as many sheets as necessary)				<b>Complete if Known</b> Application Number: 10/688,276 Filing Date: 10/20/2003 First Named Inventor: Masaru KATO Group Art Unit: <del>1002</del> 1652 Examiner Name: Unassigned I. Chowdhury Attorney Docket Number: 049441-0133	
Sheet	1	of	1		



U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>
IC	B1	European Search Report of EP 00 12 5389	
	B2	L. LARNA et al., "STARCH CONVERSION WITH IMMOBILIZED THERMOPHILIC ARCHAEABACTERIUM SULFOLOBUS SOLFATARICUS", Biotechnology Letters, Vol. 12, No. 6, (1990), pp. 431-432.	
	B3	J. A. K. W. KIEL et al., "The glgB gene from the thermophile Bacillus caldolyticus encodes a thermolabile branching enzyme", DNA Sequence—J DNA SEQUENCING AND MAPPLING, Vol. 3, pp. 221-232.	
IC	B4	Licia LAMA et al., "Thermostable Amylolytic Activity from Sulfolobus Solfataricus", Biotech Forum. Eur. Vol. 8, no. 4, April 1991, pp. 201-203.	

Examiner Signature	/Iqbal Chowdhury/ (06/08/2006)	Date Considered	
--------------------	--------------------------------	-----------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

<sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.